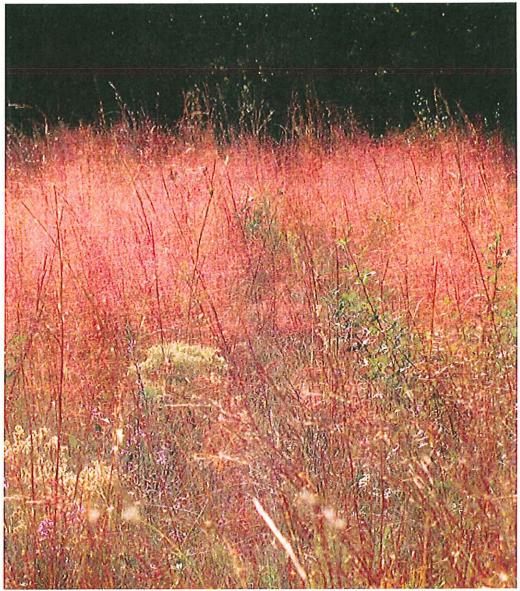
INVENTORY OF STATE-LISTED RARE THREATENED, AND ENDANGERED SPECIES ON TRANSMISSION CORRIDORS ASSOCIATED WITH THE V. C. SUMMER PROJECT



Sweet grass (Muhlenbergia capillaris) in the VCS-St. George #1 and #2 Corridor.

by

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INTRODUCTION

This report presents the findings of an inventory of state-listed endangered, threatened, and candidate species on existing and proposed transmission corridors associated with South Carolina Electric and Gas's V. C. Summer Project. The transmission corridors or "study area" for this investigation included the VCS-Killian #1 (existing and new), the VCS-St. George #1, the VCS-St. George #1 and Lake Murray #2, and the VCS-St. George #1 and #2 (see Map 1).

METHODOLOGY

A literature and internet review of the state-listed species potentially-occurring in the study areas for electric power transmission lines associated with the V. C. Summer Project was conducted in October of 2010. Over 170 species of state-listed plants and animals are known from the seven counties through which the V. C. Summer Project corridors pass (see Table 2 in Appendix for a complete list of these species). Of these 170 species, 41 species are known to occur within five miles of the V. C. Summer Project corridors (Table 1 below). Because potential habitat for only 17 of these 41 species occurs on the V. C. Summer corridors, field searches concentrated on these 17 species.

Before fieldwork for this inventory began, all South Carolina Department of Natural Resources Department records—historical and current— for these 17 species (S. C. Department of Natural Resources, 2010) were plotted on maps of the transmission corridors in the study area. According to these records, at the time this field inventory began, none of these species was known to occur within or along the margins of any of the transmission corridors in the study area.

Potential habitats for these state-listed species were also plotted on study area maps before fieldwork began. These potential habitats maps were compiled using natural color imagery of the study area with topographic, soil, and wetland features overlaid on the natural color imagery. Over fifty field sites harboring potential habitat for the species in Table 1 were field-checked in late October and early November of 2010.

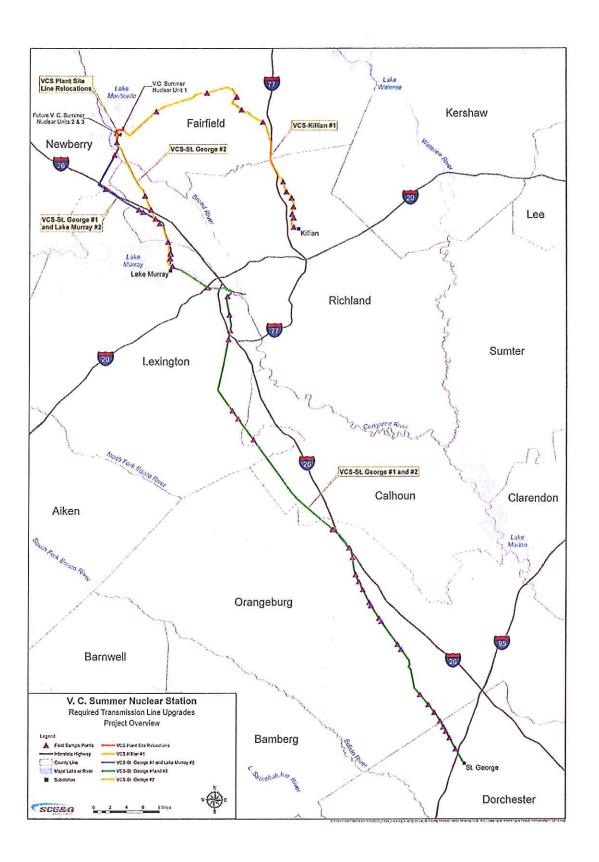


Table 1. State-listed rare, threatened, and endangered species known to occur within five miles of transmission corridors associated with the V. C. Summer Project*

Scientific Name	Common Name	State Status/ Rank	CAL	DOR	FAI	LEX	NEW	ORA	RIC	Habitat Present on Corridors?
Astragalus	Sandhill	S3	1	-					X	NO
michauxii	milkpea	05								
Botrychium	winter grape-	S1							X	NO
lımarioides	fern		1							
Burmania biflora	northern blue- thread	S2				X			X	YES
Coreopsis gladiata	southeastern tickseed	SNR		Х		X			X	YES
Etheostoma collis	Carolina darter	ST/SNR							X	<u>NO</u>
Euonymus	eastern wahoo	S1					X			NO
atropurpureus										
Frasera carolinensis	colombo	S2			X		X			YES
<u>Fundulus</u> <u>diaphanus</u>	Banded Killifish	<u>S1</u>							X	NO
Hyla andersoni	Pine-barrens Treefrog	ST/S2S3							X	YES
Hymenocallis coronaria	shoals spider-	S2					Х		Х	NO
Hypercum nitidum	Carolina St. John's-wort	S1							X	YES SEE TEXT
Ipomopsis rubra	red standing- cypress	S2	X						X	NO
Isoetes piedmontana	Piedmont quillwort	S2			Х		0			NO
Lechea torreyi	Torrey's pinweed	SNR							X	NO
Liparis lilifolia	lily-leaved twayblade	S1					X			NO
Litsea aestivalis	pond spice	S3						X		YES
Ludwigia spathulata	spatulate seedbox	S3							X	NO
Lycopus cokeri	Carolina bugleweed	S2	X			Х			X	YES
Magnolia pyramida	рутатіd magnolia	S1	X				X		X	NO
Menispermum canadense	Canada moonseed	S2S3	X	X			X			NO
Minuarta uniflora	single-flowered stichwort	S3			X					NO
Nestronia umbellula	Indian olive	S3	X						X	NO
Nolina georgiana	Georgia beargrass	S3						X	X	YES
Notropsis chiliticus	Red-lipped Shiner	<u>S1?</u>							X	NO
Oxypolis ternata	savannah cowbane	S1				Х				YES
Pityopsis pinifolia	pine-leaved golden aster	S2				X			X	YES
Psilotum nudum	whisk fern	S1							X	NO

Scientific Name	Common Name	Status/ Rank	CAL	DOR	FAI	LEX	NEW	ORA	RIC	Habitat Present on Corridors?
Rhinichthys atratulus	Black-nosed Dace	<u>S1</u>							X	<u>NO</u>
Rhododendron eastmanii	May white	S1	X		X		X		X	NO
Rorippa sessiliflora	stalkless yellowcress	SNR				Х				NO
Sarracenia rubra	sweet pitcher- plant	S4							Х	YES
Sciurus niger	Eastern Fox Squirrel	<u>\$4</u>	X					X	X	YES
Scleria baldwinii	Baldwin's nutrush	S2						X		YES
Scutellaria parvula	dwarf skullcap	S2S3			X					NO
Sedum pusillum	granite rock stonecrop	S2			X					NO
Sporobolus teretifolius	wire-leaved dropseed	S1				X				YES
Stylisma pickeringii var. pickeringerii	Pickering's morning-glory	S2				Х				NO
Symphyotrichum georgianum	Georgia aster	C/SNR			X				X	YES
Tofieldia glabra	white false- asphodel	S1S2							X	YES
Tridens carolinianus	Carolina fluff grass	S2				Х		Х		YES

^{*}According to element occurrence records from the South Carolina Department of Natural Resources Department's geographic database (S. C. Department of Natural Resources, 2010).

Underlining indicates animal species.

C-federal candidate for listing; SE-endangered statewide; ST-threatened statewide; S1-critically imperiled statewide; S2-imperiled statewide; S3-vulnerable statewide; S4-secure statewide; SNR-species not ranked.

Bold indicates found in transmission corridor during this inventory.

FINDINGS

Thirty-three sites in Calhoun, Fairfield, Newberry, Lexington, and Richland Counties were visited in late October of 2010, and 20 additional sites in Orangeburg and Dorchester Counties were field-checked in early November of 2010. Only one state-listed species was found in the study corridors—Carolina St. Johns-wort (*Hypericum nitidum*), which was found in the VCS-St. George #1 and #2 in Lexington County. The species discussed below are the species for which habitat existed on the V. C. Summer corridors (Table 1).

Burmannia biflora (northern blue-thread). Northern blue-thread is a diminutive (usually less than four inches tall) herb found in open bogs. According to the South Carolina Department of Natural Resources, it is ranked as "imperiled" in S. C. (S2, see Table 1). The plant is known from 13 counties in South Carolina, including Richland and Lexington (S. C. Plant Atlas, 2010). It has been found in a seepage bog less than one mile from the VCS-St. George #1 and #2 corridor in Lexington County. It was not found during searches of wetlands in the corridor in Richland, Lexington, Calhoun, Orangeburg, and Dorchester Counties.

Coreopsis gladiata (southeastern tickseed). Known from 21 counties in South Carolina, southeastern tickseed is listed as rare in S. C. but is not ranked (Table 1). It is known from a bog in Lexington County less than a mile from VCS-St. George #1 and #2, but it was not seen in or adjacent to the corridor itself.

Frasera carolinensis=Swertia carolinensis (colombo). Colombo is a tall herb with a large basal rosette found in nutrient-rich woods and the margins of woods. In South Carolina, it is known only from five counties (S. C. Plant Atlas, 2010) and is ranked as "imperiled" (S2) in the state. It is known from one location in Newberry County near the VCS-St. George #1 and Lake Murray #2 corridor and one location in Fairfield County just off the VCS-St. George #2 corridor. Rich woods along the edges of both corridors near the two populations were searched, but no plants of this species could be found in the corridors or in the adjacent woods.

Hyla andersonii (Pine-barrens Treefrog). The Pine-barrens Treefrog is listed as "threatened" in South Carolina by the S. C. Department of Natural Resources (Table 1). It is known from two historic locations approximately three miles east and one-half mile west of the VCS-Killian #1 corridor. The frog's preferred habitat is open bogs with shrubby margins. Marginal habitat for the species was seen along the existing corridor just north of the Killian Substation. The treefrog was not seen or heard in or along the corridor.

Hypericum nitidum (Carolina St. Johns-wort). Carolina St. Johns-wort is a colonial shrub known from five counties in South Carolina and is ranked S1 or critically imperiled in the state (S. C. Plant Atlas, 2010; SCDNR, 2010). It was known to occur in a seepage bog less than one mile from the VCS-St. George #1 and #2 corridor. In late October, two colonies of Carolina St. Johnswort were found in the corridor of VCS-St. George #1 and #2 just before its crossing of Congaree Creek in Lexington County. One colony at N3355.8338/W08105.2734 had approximately 75 plants that covered 125 square feet; the second colony at N335.9321/W08105.2678 had 20 plants and covered 50 square feet. Companion plants here were: Erianthus giganteus (giant plumegrass), Solidago rugosa (rough goldenrod), Rhexia virginica (Virginia meadowbeauty), and Juncus effusus (soft rush).



The rare Carolina St. Johns-wort, found on VCS-St. George #1 and #2 corridor in Lexington County, is a woody shrub with narrow, needle-like leaves.

Litsea aestivalis (pond spice). Pond spice is a shrub that grows along the margins of isolated wetlands. It is ranked as "vulnerable" (S3) in South Carolina (Table 1) and is known from eleven counties in South Carolina, including Orangeburg and Dorchester (S. C. Plant Atlas, 2010). Two populations of pond spice are known in southern Orangeburg County just southwest of the VCS-St. George #1 and #2 corridor. No plants of this species were found during searches of the margins of wetlands along the corridor in Orangeburg and Dorchester Counties.

Lycopus cokeri (Carolina bugleweed). Carolina bugleweed is a small herb found in seven Sandhill counties in South Carolina (S. C. Plant Atlas, 2010). A North Carolina-South Carolina endemic, it is ranked as "imperiled" (S2) in South Carolina (SCDNR, 2010). It is known from a population in Lexington County less than one mile from the VCS-St. George #1 and #2 corridor. Open boggy areas in northern Richland County and in southern Lexington and Calhoun Counties were searched for the plant. No plants of this species, however, could be found on or along the corridors.

Nolina georgiana (Georgia beargrass). Georgia beargrass is a lilaceous plant that reaches the northern limits of its range in South Carolina. In South Carolina, it is ranked as "vulnerable" (S3) statewide and is known from seven counties. In Lexington County, a population of the plant is known to occur less than one mile northeast of the VCS-St. George #1 and #2 corridor in open, longleaf pine (*Pinus palustris*) woodlands. This habitat type was searched in Lexington and Calhoun Counties, but the plant was not found on or adjacent to the corridor.

Oxypolis ternata (savannah cowbane). The savannah cowbane is ranked as "critically imperiled" (S1) in South Carolina (SCDNR, 2010). It is an apiaceous plant known from eight counties in South Carolina, including Lexington County (S. C. Plant Atlas, 2010). It is known from a seepage bog in Lexington County east of the VCS-St. George #1 and #2 corridor. It requires fire and does not compete well with densely-growing grasses. Searches were conducted in Richland, Lexington, and Calhoun Counties, along the V. C. Summer Project corridors for the species, but no plants were found.

Pityopsis pinifolia (pine-leaved golden aster). Pine-leaved golden aster is an October-blooming yellow composite known from only four counties in South Carolina (S. C. Plant Atlas, 2010). It is ranked as "imperiled" (S2) in the state (SCDNR, 2010). It is often found along roads and in partially-disturbed areas. Several populations of the plant are known from within five miles of the VCS-St. George #1 and #2 corridor in Lexington and Calhoun Counties. No plants, however, were found in the corridor there or along its margins.

Sarracenia rubra (sweet pitcher-plant). Sweet pitcher-plant is an herbaceous plant that grows in non-forested boggy environments. It is known from 15 counties in South Carolina (S. C. Plant Atlas, 2010) and is ranked as "secure" (S4) statewide by SCDNR (2010). It has been found in a bog less than one mile east of the VSC-St. George #1 and #2 corridor in Lexington County. Field searches for the pitcher-plant were carried out in Richland, Lexington, and Calhoun Counties. Good habitat for the plant was found near the Killian Substation on VCS-Killian #1 and around Congaree Creek on VCS-St. George #1 and #2, but no plants of this species were found there.

Sciurus niger (Eastern Fox Squirrel). The Eastern Fox Squirrel is a large, melanistic rodent that inhabits pine and pine-mixed hardwood forests. It is found primarily in the Coastal Plain of South Carolina and is ranked as "secure" (S4) statewide by SCDNR (2010). Although there are records of the squirrel near the corridors, the squirrel was not seen in or adjacent to the corridors. No special studies were conducted to determine its status along the corridors.

Scleria baldwinii (Baldwin's nutrush). Baldwin's nutrush is a tall sedge found in wet pine and pond cypress savannahs in the Coastal Plain. It is known from 10 counties in the state (S. C. Plant Atlas) and is ranked as "imperiled" (S2) in South Carolina, according to SCDNR (2010). A population of the plant is known from a pond cypress savannah approximately a mile southeast of the VCS-St. George #1 and #2 corridor near Bowman in Orangeburg County. Several pond cypress savannahs along the transmission corridor in Orangeburg and Dorchester County were searched for the nutrush, but the plant was not found in or adjacent to the corridor.

Sporobolus teretifolius (wire-leaved dropseed). Wire-leaved dropseed is a grass that is found in wet savannahs and bogs in only four counties in South Carolina (S. C. Plant Atlas, 2010). Ranked as "critically imperiled" (S1) in the state, it is known from a bog in Lexington County less than one mile from the VCS-St. George #1 and #2 corridor. Bog and wet savannah habitats in and along the corridors in Richland, Lexington, Calhoun, Orangeburg, and Dorchester Counties were searched, but the rare grass could not be found.

Symphyotrichum georgianum=Aster georgianus (Georgia aster). Georgia aster occurs in the Piedmont of the Carolinas on xeric, calcareous red clay soils. It was probably found in open post oak (Quercus stellata) savannahs in the pre-Columbian Piedmont, but now is primarily found on roadsides and in railroad and power line rights-of-way. In South Carolina, it is known from nine counties (S. C. Plant Atlas, 2010) and is not ranked (SNR); however, it a candidate for listing by the Fish and Wildlife Service (U. S. Department of the Interior, 2010). Because the VCS-Killian # 1 transmission corridor passes within a mile of a known Georgia aster population in Fairfield County, four nearby sites where the VCS-Killian # 1 corridor crosses roads and railroad rights-of-way were field-checked for the possible presence of the aster. Three of the four sites had recently been mowed close to the ground and were dominated by fescue (Lolium pratense) and Bahia grass (Paspalum notatum). Piedmont aster (Symphyotrichum patens=Aster patens) was present at two of the sites along the woodland margins of the corridor, but no Georgia asters were seen.

Tofieldia glabra (white false-asphodel). White false-asphodel grows in bogs and wet savannahs and is known from seven counties in South Carolina (S. C. Plant Atlas, 2010). It is ranked "critically imperiled/imperiled" (S1S2) statewide and is found in Richland and Lexington Counties (SCDNR, 2010). It has been reported from a seepage bog less than a mile from the VCS-St. George #1 and #2 corridor. Marginal habitat for the plant was found along the corridor in Lexington County, but no plants were seen.

Tridens carolinianus (Carolina fluff grass). Carolina fluff grass grows in moist depressions and bog margins in eight South Carolina counties (S. C. Plant Atlas, 2010). It is ranked as "imperiled" (S2) in the state. It is known from bogs in Lexington County, one of which is less than a mile from the VCS-St. George #1 and #2 corridor. Wetland sites in Richland, Lexington, and Calhoun Counties were searched for the plant, but it could not be found.

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APPENDIX

Table 2. State-listed rare, threatened, and endangered species known from V. C. Summer Project corridor study area counties.*

Scientific Name	Common Name	State Status/ Rank	CAL	DOR	FAI	LEX	NEW	ORA	RIC
Agalinis tenella	false-foxglove	SNR		X					X
Agrimonia incisa	incised groovebur	S2						X	
Amphicarpum muehlenberiganum	blue maiden-cane	S2S3						X	
Andropogon gyrans var. stenophyllus	Elliott's bluestem	S1				X			
Andropogon perangustatus	narrow-leaved bluestem	S1							Х
Aristida condensata	Piedmont three- awned grass	S2	X			X		X	X
Asplenium heteroresiliens	Wagner's spleenwort	S1							Х
Asplenium pinnatifidum	lobed spleenwort	S1				X			
Asplenium resilens	black-stemmed spleenwort	S1		X				Х	
Aster elliottii	Elliott's aster	S3							X
Astragalus michauxii	sandhill milkpea	S3							X
Bacopa cyclophylla	Coastal Plain water- hyssop	S1						Х	
Balduina atropurpurea	purple balduina	S1							Х
Botrychium Iunarioides	winter grape-fern	S1							X
Burmania biflora	northern blue- thread	S2				X			X
Calmovilfa brevipilis	pine-barrens reed- grass	S1							X
Campanulastrum americanum	tall bellflower	S1	X						
Carex amphibola	narrow-leaved sedge	SNR						X	
Carex basiantha	widow sedge	S2	X	X				X	
Carex cherokeensis	Cherokee sedge	S2		X					X
Carex collinsii	Collin's sedge	S2				X			X
Carex crus-corvi	ravensfoot sedge	S2						***	X
Carex decomposita	cypress-knee sedge	S2						X	37
Carex elliottii	Elliott's sedge	S1 S2		v				X	X
Carex granularis Carex oligocarpa	meadow sedge eastern few-fruited sedge	SNR		X	X			Χ	
Carex socialis	social sedge	S1	 						X
Cayaponia quinqueloba	climbing cucumber vine	S1?							X
Chrysoma pauciflosculosa	woody goldenrod	S1S2				X			
Clemmys guttata	Spotted Turtle	ST/S5		<u>X</u>					
Collinsonia serotina	Walter's horsebalm	S1							X
Condylura cristata	Star-nosed Mole	<u>S3?</u>							<u>X</u>
Coreopsis gladiata	southeastern tickseed	SNR		X		X			X
<u>Corynorhinus</u> rafinesquii	Rafinesque's Big- eared Bat	SE/S2?		-				X	X

Scientific Name	Common Name	Status/ Rank	CAL	DOR	FAI	LEX	NEW	ORA	RIC
Dirca palustris	eastern leatherwood	S2			X				
Dodecatheon meadia	shooting-star	S1?	X		X				
Distocambarus	a crayfish	S1					X		
youngineri									
Dryopteris	spinulose shield fern	S1							X
carthusiana								hand the second second	
Elanoides forficatus	Swallow-tailed Kite	SE/S2		X					
Eleocharis robbinsii	Robbins' spikerush	S2							X
Eleocharis vivipara	viviparous spike-rush	S1		X					
Elimia catenaria	Gravel Elimia	SNR							X
Elliptio congaraea	Carolina Slabshell	<u>S3</u>						X	
Elliptio lanceolata	yellow lance	SNR					X		
Epidendrum	green-fly orchid	S3		X					
canopseum	green-ny oremu	33		Λ.					
	Caualina dantan	ST/SNR	-						X
Etheostoma collis	Carolina darter		-				v		Δ
Euonymus	eastern wahoo	S1	1				X	I	
atropurpureus							77		
Eupatorium	hollow Joe-pye weed	SNR			l		X		
fistulosum									
Frasera carolinensis	colombo	S2			X		X		
Fundulus diaphanus	Banded Killifish	<u>S1</u>							X
Gaylussacia mosieri	wooly huckleberry	S1				X			
Gopherus polyphemus	Gopher Tortoise	SE/S1		X					
Helenium	Southeastern	S2						X	
pinnatifidum	sneezeweed	52						1	
Heteranthera	kidney-leaved mud-	S1	X				X		
		31	Α .				Α	1	
reniformis	plantain	CNID							X
Heterodon simus	Southern Hog-nosed Snake	SNR							
<u>Hyla andersoni</u>	<u>Pine-barrens</u> <u>Treefrog</u>	ST/S2S3							X
Hymenocallis	shoals spider-lily	S2			(-1. n : 2 :		X		X
coronaria									
Hypericum	creeping St. John's-	S2							X
adpressum	wort								
Hypercum nitidum	Carolina St. John's- wort	S1							X
Ilex amelanchier	sarvis holly	S3		X				X	X
Ipomopsis rubra	red standing-	S2	X						X
гроторы гиоги	cypress	102							4.
Isoetes piedmontana	Piedmont quillwort	S2			X				
Isoetes riparia	river bank quillwort	S2 .						X	
Juglans cinerea	white walnut	S3					X		
Juncus abortivus	pine-barrens rush	SNR							Х
			-						X
Lechea torreyi	Torrey's pinweed	SNR					X		X
Liatris microcephala	small-headed gayfeather	S1					X		Α
<u>Limnothlypis</u> <u>swainsonii</u>	Swainson's Warbler	<u>S4</u>		X					
Lindera subcoriacea	bog spicebush	S3				20/2			X
Liparis lilifolia	lily-leaved twayblade	S1					X		
Listera australis	southern twayblade	S2		X					
Litsea aestivalis	pond spice	S3						X	
Lobelia boykinii	Boykin's lobelia	S3						X	
Lobelia sp. 1	Batson's lobelia	SNR				X			
(batsoni)	Datson 3 loocha	DINIX				Λ.			

Ludwigia spathulata spatulate seedbox S3	X X X X
Macbridea bog mint S3	X
Caroliniana Magnolia Dig-leaved magnolia S1	X
Magnolia macrophylla big-leaved magnolia S1 X Magnolia pyramida pyramid magnolia S1 X X Melanhilum virginicum Virginia bunchflower S2 X Menispermum canadense Canada moonseed S2S3 X X Micrurus fulvius eastern coral snake S2 X X Minuarta uniflora single-flowered stickwort S3 X X Monotropsis odorata sweet pinesap stickwort S2 X X Monotropsis odorata sweet pinesap stickwort S2 X X Monotropsis odorata sweet pinesap stickwort S2 X X Morthecium bose watermilfoil S2 X X X Narthecium bog asphodel C/SH X X X Nectonia unbellula Indian olive S3 X X Nestonia unbellula Indian olive S3 X X Notropsis chilliticus Red-lipped Shiner S1?	
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virginicum Menispermum Canada moonseed S2S3 X X X X X X X X X	
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Plagiochila Sullivant's liverwort SNR sullivantii	X
sullivantii	
	X
Plantage enguiffered pipeland plantain S2 V	
Platanthera lacera green fringed orchid S2	X
Polygala nana dwarf milkwort S1 X	
Ponthieva racemosa shadow-witch orchid S2 X	
Potamogeton algae-like pondweed S1	X
confervoides	
Potamogeton foliosus leafy pondweed SNR X	
Prunus alabamensis Alabama black S1	X
cherry	
Pseudacris feriarum Upland Chorus Frog S5 X	
<u>Pseudobranchus</u> <u>Dwarf Siren</u> <u>ST/S2</u> <u>X</u>	
<u>striatus</u>	
Psilotum nudum whisk fern S1	X
Pteroglossaspis spiked medusa S2 X ecristata	X
Pyganodon cataracta Eastern Floater SNR X	X
Quercus Oglethorpe's oak S3	
oglethorpensis	X
Quercus similis bottomland post oak S1 X	X
Rano capito Gopher Frog SE/S1 X	X
	X

Scientific Name	Common Name	Status/ Rank	CAL	DOR	FAI	LEX	NEW	ORA	RIC
Rhexia aristosa	awned meadowbeauty	S3						Х	X
Rhinichthys atratulus	Black-nosed Dace	<u>S1</u>							X
Rhododendron	May white	S1	X		X		X		X
eastmanii									
Rhododendron flammeum	Piedmont azalea	S3						X	
Rhynchospora alba	white beakrush	SX				X			
Rhynchospora harperi	Harper's beakrush	S1						X	
Rhynchospora inundata	drowned hornrush	S2?				Х			X
Rhynchospora leptocarpa	narrow-fruited beakrush	S1				Х			
Rhynchospora macra	large beakrush	S1	1						X
Rhynchospora	few-flowered	S2	1						X
oligantha	beakrush	15.75.I							0007
Rhynchospora pallida	pale beakrush	S1							X
Rhynchospora stenophylla	Chapman's beakrush	S2				Х			X
Rhynchospora tracyi	Tracy's beakrush	S3						Х	
Rorippa sessiliflora	stalkless yellowcress	SNR				X			
Sagittaria isoetiformis	slender arrow-head	S3					Х		
Sarracenia rubra	sweet pitcher-plant	S4							X
Scirpus erimaniae	sharp-scaled bulrush	SNR							X
Scirpus etuberculatus	Canby's bulrush	SNR							X
Scirpus subterminalis	water bulrush	SNR					X		,
Sciurus niger	Eastern Fox Squirrel	<u>\$4</u>	X					X	X
Scleria baldwinii	Baldwin's nutrush	S2						X	
Scutellaria parvula	dwarf skullcap	S2S3			X				
Sedum pusillum	granite rock stonecrop	S2			X				
Seminatrix pygaea	Black Swamp Snake	SNR				X			
Spilogale putorius	Eastern Spotted Skunk	<u>S4</u>							<u>X</u>
Sporobolus	wire-leaved	S1				X			
teretifolius	dropseed								
Sterna antillarum	Least Tern	<u>S3</u>		X					
Strophitus undulatus	<u>Creeper</u>	<u>S2</u>							<u>X</u>
Stylisma pickeringii	Pickering's	S2				X			
var. pickeringerii	morning-glory							<u></u>	
Symphyotrichum	Georgia aster	C/SNR			X				X
georgianum							***********		
Sylvilagus aquaticus	Swamp Rabbit	S2S3							X X
Tofieldia glabra	white false-asphodel	S1S2							<u>X</u>
Toxolasma pullus Tradescantia	Savannah lilliput Virginia spiderwort	<u>S1</u> S1						X	<u>X</u>
virginiana									
Trepocarpus aethusae	aethusa-like trepocarpus	S1							Х
Tridens carolinianus	Carolina fluff grass	S2				X		X	
Tridens chapmanii	Chapman's redtop	S1							X
Trillium pusillum var. pusillum	least trillium	S2	X	X					

Scientific Name	Common Name	Status/ Rank	CAL	DOR	FAI	LEX	NEW	ORA	RIC
Tyto alba	Barn Owl	<u>S4</u>							X
Ursus americanus	Black Bear	S3?					<u>X</u>		X
Urtica chamaedryoides	weak nettle	S2	X						X
Uricularia olivacea	Piedmont bladderwort	S2						X	
Utterbackia imbecilis	Paper Pondshell	SNR						X	
Vaccinium crassifolium var. sempervirens	Rayner's blueberry	S1			sis.	Х			X
Villosa delumbis	Eastern Creekshell	<u>S4</u>			X			X	X
Viola pubescens var. leiocarpon	yellow violet	S2					X		
Warei cuneifolia	Nuttall's warea	S1							X
Xyris chapmanii	Chapman's yellow- eyed grass	S1				X			
Xyris stricta	pineland yellow-eyed grass	S1		Х					

Underlining indicates animal species.

Bold indicates species found with five miles of study corridors.

C-federal candidate species; SE-endangered statewide; ST-threatened statewide; S1-critically imperiled statewide; S2-imperiled statewide; S3-vulnerable statewide; S4-secure statewide; SH-historic occurrence statewide; SX-thought to be extinct statewide.

COUNTIES: CAL-Calhoun; DOR-Dorchester; FAI-Fairfield; LEI- Lexington; NEW-Newberry; ORA-Orangeburg; RIC-Richland.